

30-40 feet \rightarrow height of cell

10-12 vibrations (Swings) to drop 3 inches
 dropped
 10 inches down in 3 minutes
 dropped
 1 yard in $\frac{1}{2}$ - 1 hour

Would like to know

- how long he was there
- how long for the rats ate ropes
- where the ropes were tying him
- ⊖ the weight of the blade
 - speed of blade
 - size of blade (long) \rightarrow 1 foot long
- ⊖ Angle of swing
 - time of swing

Abigail, Bertha, Candy, Dodi, and Eudora showed up with their puppies at the Little Red School House for Dogs. During the morning break, they found that each of their pets has the same name as the husband of one of the other women.

In particular, they noticed that

- Abigail's dog is named George.
- Candy's dog is named Jerry.
- Eudora's dog is named Ike.
- Dodi's dog is named Frank.
- Abigail's husband is also named Frank.
- Bertha's husband has the same name as George's dog.
- Horace and his wife, Candy, have the best behaved dog.

	Dog					Husband				
	F	G	H	I	J	F	G	H	I	J
A	X	✓	X	X	X	✓	X	X	X	X
B	X	X	✓	X	X	X	X	X	✓	X
C	X	X	X	X	✓	X	X	✓	X	X
D	✓	X	X	X	X	X	X	X	X	✓
E	X	X	X	✓	X	X	✓	X	X	X

Your job is to figure out the names of each woman's husband and each woman's dog. In addition, you must explain clearly how you found your answer. If you think there is more than one possibility, give all solutions, and explain why there are no more. If you think there is only one solution, explain why there are no others.

Changing the angle

Group 1

$120^\circ =$	1.6	.65	1.37
$140^\circ =$	1.25	1.07	1.24
$160^\circ =$	1.16	1.12	1.39
$180^\circ =$	1.41	1.34	1.24
200 $100^\circ =$.97	.87	1.19

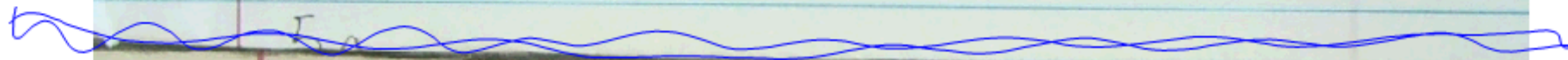
Group 2

<u>160</u>	2 150	150	<u>170</u>	<u>140</u>
1.72	1.85		2.41	1.66
2.19	1.41		2.85	1.72
2.09	1.87		2.25	1.50
2.75	1.97		2.53	1.92
2.03	1.03		2.41	1.57
2.12	1.58		2.19	1.54

Charging Weights

Group 1

50g	20g	100g	5g
- 1.10 seconds	- 1.35	- 1.37	- 1.5
- 1.26	- 1.11	- 1.33	- 1.8
- 1.32	- 1.45	- 1.37	- 1.4
- 1.28	- 1.19	- 1.50	- 1.6
- 1.31	- 1.60	- 1.36	- 1.5



Group 2

weight	time 1	time 2	time 3
100g	1.1 sec	1.25 sec	1.13 sec
50g	1.25 sec	1.25 sec	1.25 sec
20g	1.34 sec	1.25 sec	1.31 sec
10g	1.32 sec	1.19 sec	1.06 sec
5g	1.15 sec	1.1 sec	1.19 sec

Change length

Group
1

100cm	2.63	2.34	2.44
10cm	.50	.69	.40

Group 2

Wrap #		Time (sec)	
cm	wrap		
4	1	1:28	> -18
8	2	1:10	> -3
12	3	1:07	> -20
16	4	1:87	> -9
20	5	1:78	> -6
24	6	1:72	

Rope

147	148	143
144	146	146
145	146	146
146	145	
145	145	
145	148	
144	146	
146	145	
145	145	
144		

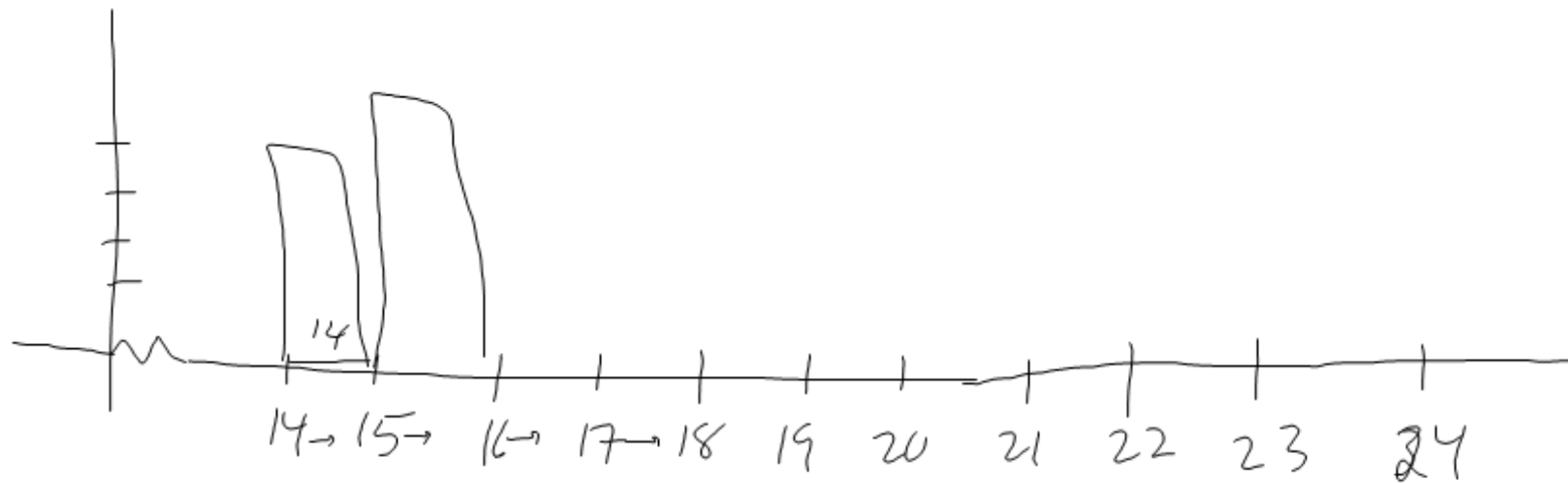
Pulse

18	28	25
22	20	22
21	14	20
23	35	18
23	21	15
24	21	19
20	24	18
23		

Stride

61	54	57	68	56	70
69	66	46	61	55	64
66	46	29	86	55	62
53	56	23	62	63	

Histogram



HW: Finish the histograms of the data